GILA RIVER BASIN

09468500 SAN CARLOS RIVER NEAR PERIDOT, AZ

LOCATION.—Lat 33° 17'47", long 110° 27'03", in SE_{1/4} sec. 36, T.1 S., R.18 E. (unsurveyed), Gila County, Hydrologic Unit 15040007, in San Carlos Indian Reservation, on U.S. Highway 70 bridge, 0.9 mi south of Peridot.

DRAINAGE AREA.--1,026 mi².

PERIOD OF RECORD.—Aug. 1910 to Jan. 1911 (gage heights only), Apr. 1914 to July 1915, Aug. to Sept. 1915 (monthly discharge only), Oct. 1929 to current year. Prior to Oct. 1929 published as "at San Carlos."

REVISED RECORDS.--WSP 1283: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 2,542.29 ft above sea level (AZ Highway Department benchmark). See WSP 1713 or 1733 for history of changes prior to Feb. 1, 1942. Feb. 1, 1942, to Aug. 13, 1970, at sites 1.9 mi upstream at different datums. Aug 14, 1970, to Sept. 30, 1980, at site 1.8 mi upstream at datum 2,578.90 ft, above sea level. Supplementary water-stage recorder Dec. 21, 1967, to July 2, 1968, at site 2.2 mi downstream at datum in use prior to Feb. 1, 1942; Jan. 31, 1979, to Sept. 30, 1980, at present site and datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions above station for irrigation of about 600 acres. Small inflow from sewage treatment system about 3.6 mi upstream. Flow regulated to some extent since June 15, 1979, by Talkalai Reservoir; capacity, about 6,000 acre-ft.

Time

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 54,800 ft³/s Jan. 8, 1993, gage height, 12.12 ft, from rating curve extended above 23,000 ft³/s on basis of rate of change in San Carlos Reservoir; maximum gage height 14.8 ft, Dec. 22, 1965, site and datum then in use; no flow at times in most years.

Discharge (ft³/s) Gage height (ft)

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 2,200 ft³/s and (or) maximum (*):

Date

			Da	Date		Time Discharge (11.78)		dage neigi	11 (11)				
				Aug. 7		0100		*200	5.97				
Minimum daily discharge, no flow for many days.													
IVIIIIII	num uany u	ischarge, no			FEET PER		WATER Y	YEAR OCTOBER VALUES	2001 TO	SEPTEMBER	2002		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	0.00	4.4	8.5	15	13	15	14	4.6	0.00	0.00	3.1	0.00	
2	0.00	6.1 6.6	8.7 9.0	14 12	13 13	14 14	13 13	4.3	0.00	0.00	2.1 0.80	0.00	
4	0.00	6.8	8.7	12	13	13	12	3.7	0.00	0.00	0.00	0.00	
5	0.00	8.1	9.6	14	13	12	12	3.6	0.00	0.00	0.00	0.00	
6	0.00	8.5	10	12	12	12	13	3.4	0.00	0.00	15	0.00	
7	0.00	8.0	11	12	12	12	14	3.4	0.00	0.00	137	0.00	
8	0.00	7.9	10	12	13	13	15	2.5	0.00	0.00	40	0.00	
9	1.6	8.2	10	12	13	15	14	2.0	0.00	0.00	14	0.00	
10	4.7	7.9	11	12	13	16	13	1.6	0.00	0.00	7.3	0.00	
11	4.1	5.9	11	12	13	16	13	1.1	0.00	0.00	4.2	0.00	
12	3.2	5.5	11	12	13	15	12	0.74	0.00	0.00	2.7	0.00	
13	1.8	6.4	13	12	14	15	13	0.28	0.00	0.00	1.4	0.00	
14	0.13	6.7	15	12	15	14 14	12	0.00	0.00	0.00	0.69 0.08	0.00	
15	0.00	6.3	15	12	14	14	11	0.53	0.00	0.00	0.08	0.00	
16	0.00	6.5	16	13	15	13	11	0.16	0.00	0.00	0.00	0.00	
17	0.00	6.8	16	13	16	13	9.4		0.00	0.00	0.00	0.00	
18 19	0.00	7.1 7.0	15 13	13 13	15 16	13 13	8.9		0.00	0.00 25	0.00	0.00	
20	0.00	7.0	12	13	16	13	7.9		0.00	0.03	0.00	0.00	
21 22	0.00	7.3 7.2	e12 e12	12 12	16 15	13 14	7.7 7.8		0.00	0.00	0.00	0.00	
23	0.00	6.8	e12 e12	12	15	13	7.8		0.00	0.00	0.00	0.00	
24	0.00	6.1	e13	12	15	12	7.5		0.00	0.00	0.00	0.00	
25	0.00	6.2	e13	11	15	13	6.9	0.00	0.00	0.00	0.00	0.00	
26	0.00	7.2	e13	12	15	12	6.2	0.00	0.00	0.00	0.00	0.00	
27	0.07	7.7	e14	12	15	13	6.4		0.00	0.00	0.00	0.00	
28	0.95	7.7	e14	13	15	13	6.0		0.00	0.00	0.00	0.00	
29 30	2.1 1.3	8.1 8.4	13 14	13 13		15 13	5.6 5.3		0.00	0.00	0.00	0.00	
31	2.5		15	14		14		0.00		2.6	0.00		
TOTAL	22.45	210.4	378.5	388	396	420	306.4	35.51	0.00	27.86	228.37	0.00	
MEAN	0.724	7.013	12.21	12.52	14.14	13.55	10.21		0.000	0.899	7.367	0.000	
MAX	4.7	8.5	16	15	16	16	15		0.00	25	137	0.00	
MIN	0.00	4.4	8.5	11	12	12	5.3		0.00	0.00	0.00	0.00	
AC-FT CFSM	45 0.00	417 0.01	751 0.01	770 0.01	785 0.01	833 0.01	608 0.01		0.00	55 0.00	453 0.01	0.00	
IN.	0.00	0.01	0.01	0.01	0.01	0.01	0.01		0.00	0.00	0.01	0.00	
										0.00	0.01	0.00	
STATIST	rics of M	ONTHLY MEA	IN DATA FO	R WATER Y	EARS 1930	- 2002,	BY WAT	ER YEAR (WY)					
MEAN	28.70	20.06	103.1	140.2	162.9	141.3	23.94	7.739	3.600	18.18	51.63	23.26	
MAX (WY)	519 1973	178 1979	1581 1966	3208 1993	1500 1980	1262 1941	170 1941		19.8 1993	84.6 1930	320 1990	166 1983	
MIN	0.20	2.68	5.07	5.80	7.03	4.83	2.17		0.000	0.000	1.61	0.000	
(WY)	1957	1957	1951	1958	1953	1959	1959	1959	1948	1947	1962	1956	
SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WA								WATER YEAR	RS 1930 -	2002			
ANNUAL TOTAL 3695.96 2413.49													
ANNUAL MEAN				10.13			6.612			60.08 426 1993			
HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN										6.61		2002	
HIGHEST DAILY MEAN				167	Mar 9		137			20000	Jan 8	1993	
LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM				0.00	May 14 May 14			.00 Oct 1		0.00			
ANNUAL SEVEN-DAY MINIMUM ANNUAL RUNOFF (AC-FT)				0.00 7330		0.00 Oct 1 4790			0.00 Jun 24 1930 43520				
ANNUAL RUNOFF (CFSM)				0.010			0.006			0.059			
ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS				0.13		0.09			0.80				
	CENT EXCE			24 4.4				14 5.9			65 9.8		
90 PERCENT EXCEEDS 0.00 0.00 1.0													

e Estimated